Preliminary Classification:

Proposed Class:

Subclass:

NOTE:

"All applicants are requested to include a preliminary classification on newly filed patent applications. The preliminary classification, preferably class and subclass designations, should be identified in the upper right-hand comer of the letter of transmittal accompanying the application papers, for example 'Proposed Class 2, subclass 129." M.P.E.P. § 601, 7th ed.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Mail Stop PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

NEW APPLICATION TRANSMITTAL

Transmitted herewith for filing is the patent application of

Inventor(s): Jarmo HEINONEN, Markus PETTERSSON and Sami VILHONEN

WARNING: 37 C.F.R.§ 1.41(a)(1) points out:

"(a) A patent is applied for in the name or names of the actual inventor or inventors.

"(1) The inventorship of a nonprovisional application is that inventorship set forth in the oath or declaration as prescribed by § 1.63, except as provided for in § 1.53(d)(4) and § 1.63(d). If an oath or declaration as prescribed by § 1.63 is not filed during the pendency of a nonprovisional application, the inventorship is that inventorship set forth in the application papers filed pursuant to § 1.53(b), unless a petition under this paragraph accompanied by the fee set forth in § 1.17(I) is filed supplying or changing the name or names of the inventor or inventors."

For (title): Provision of Local Oscillator Signals

CERTIFICATION UNDER 37 C.F.R. § 1.10*

(Express Mail label number is mandatory) (Express Mail certification is optional.)

I hereby certify that this New Application Transmittal and the documents referred to as attached therein are being deposited with the United States Postal Service on this date, <u>August 18, 2003</u>, in an envelope as "Express Mail Post Office to Addressee," mailing Label Number <u>EV 252883409 US</u>, addressed to the Commissioner for Patents, Washington, D.C. 20231.

Annemarie Maher (type or print name of person mailing paper)

Signature of person mailing paper

WARNING: Certificate of mailing (first class) or facsimile transmission procedures of 37 C.F.R. § 1.8 cannot be used to obtain a date of mailing or transmission for this correspondence.

WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail"

mailing label placed thereon prior to mailing. 37 C.F.R. § 1.10(b).

Since the filing of correspondence under § 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will **not** be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

1. Type of Application This new application is for a(n) (check one applicable item below) ☑ Original (nonprovisional) □ Design □ Plant "Do not use this transmittal for a completion in the U.S. of an International Application under WARNING: 35 U.S.C. § 37(c)(4), unless the International Application is being filed as a divisional, continuation or continuation-in-part application. WARNING: Do not use this transmittal for the filing of a provisional application. If one of the following 3 items apply, then complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF A PRIOR U.S. APPLICATION CLAIMED and a NOTIFICATION IN PARENT APPLICATION OF THE FILING OF THIS CONTINUATION APPLICATION. □ Divisional

2. Benefit of Prior U.S. Application(s) (35 U.S.C. §§ 119(e), 120, or 121)

NOTE: A nonprovisional application may claim an invention disclosed in one or more prior filed copending nonprovisional applications or copending international applications designating the United States of America. In order for a nonprovisional application to claim the benefit of a prior filed copending nonprovisional application or copending international application designating the United States of America, each prior application must name as an inventor at least one inventor named in the later filed nonprovisional application and disclose the named inventor's invention claimed in at least one claim of the later filed nonprovisional application in the manner provided by the first paragraph of 35 U.S.C. § 112. Each prior application must also be:

- (i) An international application entitled to a filing date in accordance with PCT Article 11 and designated the United States of America; or
- (ii) Complete as set forth in § 1.51(b); or
- (iii) Entitled to a filing date as set forth in § 1.53(b) or § 1.53(d) and include the basic filing fee set forth in § 1.16; or
- (iv) Entitled to a filing date as set forth in § 1.53(b) and have paid therein the processing and retention fee set forth in § 1.21(l) within the time period set forth in § 1.53(f).

37 C.F.R. § 1.78(a)(1).

Continuation

☐ Continuation-in-part (C-I-P)

NOTE: If the new application being transmitted is a divisional, continuation or a continuation-in-part of a parent case, or where the parent case is an International Application which designated the U.S., or benefit of a prior provisional application is claimed, then check the following item and complete and attach ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.

WARNING: If an application claims the benefit of the filing date of an earlier filed application under 35 U.S.C. §§ 120, 121 or 365(c), the 20-year term of that application will be based upon the filing date of the earliest U.S. application that the application makes reference to under 35 U.S.C. §§ 120,121 or 365(c). (35 U.S.C. §§ 154(a)(2) does not take into account, for the determination of the patent term, any application on which priority is claimed under 35 U.S.C. §§ 199, 365(a) or 365(b).) For a c-i-p application, applicant should review whether any claim in the patent that will issue is supported by an earlier application and, if not, the applicant should consider canceling the reference to the earlier filed application. The term of a patent is not based on a claim-by-claim approach. See Notice of April 14, 1995, 60 Fed. Reg. 20,195, at 20,205.

WARNING:			When the last day of pendency of a provisional application falls on a Saturday, Sunday, or Federal holiday within the District of Columbia, any nonprovisional application claiming benefit of the provisional application must be filed prior to the Saturday, Sunday, or Federal holiday within the District of Columbia. See 37 C.F.R. § 1.78(a)(3).							
	I		The new application being transmitted claims the benefit of prior U.S. application(s). Enclosed are ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.							
3.	Pap	ers	Enclosed							
	<u>20</u> 6	1.18 Pag Pag	quired for filing date under 37 C.F.R. § 1.53(b) (Regular) or 37 C.F.R. § 53 (Design) Application iges of specification iges of claims eets of drawings							
	WAR	NIN	G: DO NOT submit original drawings. A high quality copy of the drawings should be supplied when filing a patent application. The drawings that are submitted to the Office must be on strong, white, smooth, and non-shiny paper and meet the standards according to § 1.84. If corrections to the drawings are necessary, they should be made to the original drawing and a high-quality copy of the corrected original drawing then submitted to the Office. Only one copy is required or desired. For comments on proposed then-new 37 C.F.R. § 1.84, see Notice of March 9, 1988 (1990 O.G. 57-62).							
	NOT	E:	"Identifying indicia, if provided, should include the application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application. This information should be placed on the back of each sheet of drawing a minimum distance of 1.5 cm (5/8 inch) down from the top of the page" 37 C.F.R. § 1.84(c)).							
			(complete the following, if applicable)							
			The enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT PHOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. § 1.84(b).							
			The enclosed drawing(s) are in color. Three (3) sets of color drawings and a "PETITION TO ACCEPT COLOR DRAWING(S)" are attached. 37 C.F.R. §§ 1.84(a)(2) and 1.84(b).							
			formal informal							
	В.	Oth	ner Papers Enclosed							
	<u>2</u> <u>1</u> <u>0</u>	Pa	nges of declaration and power of attorney nges of abstract her							
4.	Add	litic	onal papers enclosed							
		Am	nendment to claims							
			ncel in this application claims before calculating filing fee. (At least one original independent claim must be retained for ap purposes.)							
		bee	d the claims shown on the attached amendment. (Claims added have en numbered consecutively following the highest numbered original ims.)							

		Prel	imina	ary A	meno	dment														
		Info	rmati	on D	isclo	sure S	itaten	nent	(37 ().F	.R.	§ 1	.98)							
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NOTE:		A declaration filed to complete an application must be executed, identify the specification to which it is directed, identify each inventor by full name including family name and at least one given name, without abbreviation together with any other given name or initial, and the residence, post office address and country or citizenship of each inventor, and state whether the inventor is a sole or joint inventor. 37 C.F.R. § 1.63(a)(1)-(4).																		
NO	TE:	declar oath appli to § is file	aration or de ication 1.53(b	as pi clarati , the i), unle	rescrit on as invento ess a p	a nonproded by § prescriporship is petition hanging	§ 1.62, bed by s that i under	, exce / § 1. invent this p	ept as 63 is r torship paragra	prot oot f set aph	vided filed forti acco	d foi duri h in omp	r in § ing th the a anie	1.5 ne pe appli d by	3(d) ende ication the	(4) a ency on pa fee :	and § of a aper set f	§ 1.63 nonp s filed orth ir	B(d). provisi I purs n § 1.	If an ional suant 17(I)
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NO	TE:	con App may	ere the filing is a completion in the U.S. of an International Application or where the appletion of the U.S. application contains subject matter in addition to the International discation, the application may be treated as a continuation or continuation-in-part, as the case be, utilizing ADDED PAGE FOR NEW APPLICATION TRANSMITTAL WHERE BENEFIT PRIOR U.S. APPLICATION CLAIMED.								
			☐ Application is made by a person authorized under 37 C.F.R. § 1.41(c) on behalf of <i>all</i> the above named inventor(s).								
(The	dec	laration or oath, along with the surcharge required by 37 C.F.R. § 1.16(e) can be filed subsequently).								
			☐ Showing that the filing is authorized. (not required unless called into question. 37 C.F.R. § 1.41(d))								
6.	Inv	ente	orship Statement								
WARNING:		IG:	If the named inventors are each not the inventors of all the claims an explanation, including the ownership of the various claims at the time the last claimed invention was made, should be submitted.								
The	e inv	ento	orship for all the claims in this application is:								
		The	e same.								
			or								
			the same. An explanation, including the ownership of the various claims he time the last claimed invention was made,								
			is submitted.								
			will be submitted								
7.	Lar	ngua	age								
NO	TE:	Eng of \$	application including a signed oath or declaration may be filed in a language other than lish. An English translation of the non-English language application and the processing fee 130.00 required by 37 C.F.R. § 1.17(k) is required to be filed with the application, or within in time as may be set by the Office. 37 C.F.R. § 1.52(d).								
		☒	English Non English								
			☐ The attached translation includes a statement that the translation is accurate. 37 C.F.R. § 1.52(d).								
8.	Ass	sign	ment								
		X	An assignment of the invention to Nokia Corporation								
			 is attached. A separate ☐ "COVER SHEET FOR ASSIGNMENT (DOCUMENT) ACCOMPANYING NEW PATENT APPLICATION" or ☑ FORM PTO 1595 is also attached. 								
			□ will follow.								
NOT	TE:		n assignment is submitted with a new application, send two separate letters-one for the ication and one for the assignment." Notice of May 4, 1990 (1114 O.G. 77-78).								

WARNI	ING:	A newly excontinuation 62-64.	ecuted "CE η-in-part app	RTIFICATE UNI lication is filed b	DER 37 y an assi	C.F.R. § 3.73 ignee. Notice	3(b)" must be of April 30, 19	filed when a 993, 1150 OG		
					d the assignment documen on					
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9. C	ertifie	d Copy								
C	ertifie	d copy(ies) of applic	ation(s)						
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from v	vhich	priority is	claimed:							
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		t Claims } 1.16(b))	3 - 3 =	= 0	×	\$84.00 =				
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(New Application Transmittal [4-1] page 6 of 11)

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12. Rec	lues	st fo	r Intern	ational-T	УF	e Search	1 (37 C.F	.R. § 1.1	04(d))	
				(c	on	nplete, if a	applicable	e)		
						tional-type ation on t				application at the

(New Application Transmittal [4-1] page 7 of 11)

13. F	ee l	Payment Being Made at This Time				
Е	1 [Not Enclosed				
	[□ No filing fee is to be paid at this time. (This and the surcharge required by 37 C.F.R. § 1.16(e) can subsequently.)	be paid			
Σ	3 E	Enclosed				
	[☑ Filing fee	\$ <u>750.00</u>			
	ſ	 Recording assignment (\$40.00 – 37 C.F.R. § 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION.") 	\$ <u>40.00</u>			
	[□ Petition fee for filing by other than all the inventors or person on behalf of the inventor where inventor refused to sign or cannot be reached.	\$			
		(\$130.00 – 37 C.F.R. §§ 1.47 and 1.17(i))	Φ			
	(□ For processing an application with a specification in a non-English language (\$130.00; 37 C.F.R. §§ 1.52(d) and 1.17(k))	\$			
	ı	□ Processing and retention fee (\$130.00, 37 C.F.R. §§ 1.52(d) and 1.21(l))	\$			
	ĺ	☐ Fee for international-type search report (\$40.00; 37 C.F.R. § 1.21(e))	\$			
NOTE	37 C.F.R. § 1.21(I) establishes a fee for processing and retaining any application to abandoned for failing to complete the application pursuant to 37 C.F.R. § 1.53(f) and this, as the changes to 37 C.F.R. §§ 1.53 and 1.78(a)(1), indicate that in order to obtain the ber a prior U.S. application, either the basic filing fee must be paid, or the processing and ret fee of § 1.21(I) must be paid, within 1 year from the notification under § 53(f).					
	•	Total fees enclosed	\$			
14. N	/leti	hod of Payment of Fees				
		Attached is a ⊠ check □ money order in the amount of \$	790.00			
_		Authorization if hereby made to charge the amount of \$				
		□ to Deposit Account No				
		to credit card as shown on the attached credit card infor authorization form PTO-2038	mation			
_		Charge any additional fees required by this paper or credit any of the manner authorized above. A duplicate of this transmittal is a				
NOTE		Fees should be itemized in such a manner that it is clear for which purpose the C.F.R. § 1.22(b).	fees are paid. 37			

(New Application Transmittal [4-1] page 8 of 11)

15. Authorization to Charge Additional Fees

WARNING:		If no fees are to be paid on filing, the following items should <u>not</u> be completed.							
WARNING:		Accurately count claims, especially multiple dependent claims, to avoid unexpected high charges, if extra claim charges are authorized.							
	X	fees	Commissioner is hereby authorized to charge the following additional s by this paper and during the entire pendency of this application to count No. 23-0442						
		X	37 C.F.R. § 1.16(a), (f), or (g) (filing fees) 37 C.F.R. § 1.16(b), (c), and (d) (presentation of extra claims)						
NOTE:	pres the 1.16	entat time (d)).	additional fees for excess or multiple dependent claims not paid on filing or on later ion must only be paid or these claims canceled by amendment prior to the expiration of period set for response by the P.T.O. in any notice of fee deficiency (37 C.F.R. § it might be best not to authorize the P.T.O. to charge additional claim fees, except when dealing with amendments after final action.						
			37 C.F.R. § 1.16(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)						
			37 C.F.R. § 1.17(a)(1)-(5) (extension fees pursuant to § 1.136(a))						
			37 C.F.R. § 1.17 (application processing fees)						
WARNIN	G:	cond for it leng requ time para treat petit	written request may be submitted in an application that is an authorization to treat any current or future reply, requiring a petition for an extension of time under this paragraph is timely submission, as incorporating a petition for extension of time for the appropriate th of time. An authorization to charge all required fees, fees under § 1.17, or all lired extension of time fees will be treated as a constructive petition for an extension of in any concurrent or future reply requiring a petition for an extension of time under this ingraph for its timely submission. Submission of the fee set forth in § 1.17(a) will also be ted as a constructive petition for an extension of time in any concurrent reply requiring a tion for an extension of time under this paragraph for its timely submission." 37 C.F.R. § 16(a)(3).						
			37 C.F.R. § 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. § 1.311(b))						
NOTE:	mail	ling c	n authorization to charge the issue fee to a deposit account has been filed before the of a Notice of Allowance, the issue fee will be automatically charged to the deposit at the time of mailing the Notice of Allowance. 37 C.F.R. § 1.311(b).						
NOTE:	to s is be r	mall e ssue i nade	2. § 1.28(b) requires "Notification of any change in status resulting in loss of entitlement entity status must be filed in the application prior to paying, or at the time of paying, . fee." From the wording of 37 C.F.R. § 1.28(b), (a) notification of change of status must even if the fee is paid as "other than a small entity" and (b) no notification is required if ge is to another small entity.						

16. Instructions as to Overpayment

Customer No. 004955

NOTE:	a re dolla	easonable time, nor will the p	or less will not be returned unless specifically requested within ayer be notified of such amounts; amounts over twenty-five or, if requested, by credit to a deposit account." 37 C.F.R. §	
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		Refund		
Date:	Aug	ust 18, 2003	Flaries Magun	e_
Reg. N	lo.	31,391	SIGNATURE OF PRACTITIONER	
Tel. No. (20		03) 261-1234	Francis J. Maguire (type or print name of practitioner	
			Ware, Fressola, Van Der Sluys & Adolphson, LLP P.O. (Correspondence) Address	
			Building Five, Bradford Green 755 Main Street, P.O. Box 224 Monroe, CT 06468	

	Inc	orporation by reference of added pages
	prio sta the	eck the following item if the application in this transmittal claims the benefit of U.S. application(s) (including an international application entering the U.S. ge as a continuation, divisional or C-I-P application) and complete and attached ADDED PAGES FOR NEW APPLICATION TRANSMITTAL WHERE NEFIT OF PRIOR U.S. APPLICATION(S) CLAIMED.)
		Plus Added Pages for New Application Transmittal Where Benefit of Prior U.S. Application(s) Claimed
		Number of pages added
		Plus Added Pages for Papers Referred to in Item 4 Above
		Number of pages added
		Plus added pages deleting names of inventor(s) named in prior application(s) who is/are no longer inventor(s) of the subject matter claimed in this application.
		Number of pages added
		Plus "Assignment Cover Letter Accompanying New Application"
		Number of pages added
X	Sta	itement Where No Further Pages Added
		(if no further pages form a part of this Transmittal, then end this Transmittal with this page and check the following item.
	X	This transmittal ends with this page.